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The Students of Worcester Polytechnic Institute

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TECH NEWS

VOL. 20

WORCESTER, MASS., MAR. 12, 1929

NO. 18

COMMERCE HIGH QUINTET WINS INTERSCHOLASTIC TOURNAMENT

**Finest Schoolboy Teams in Worcester County Compete for Cup
in Several Close Contests**

EPSTEIN STARS FOR WINNERS— STANLEY TALLIES HIGH FOR ST. JOHN'S TEAM IN FINAL

The Worcester Tech Interscholastic tournament opened this year with eight of the schoolboy teams in Worcester County scheduled to fight for the cup awarded annually to the winner of the tournament.

Commerce High won the Worcester County Interscholastic Tournament for the second year running by defeating St. John's High by the score 26-22 last Saturday night in the finals.

The second half was much the same as the first with Commerce enjoying a small lead throughout. Cap. Epstein, Ranchynski, and Ambrose repeatedly broke away for scores that were matched by Stanley and Jarzowski. As the game drew to a close the superior condition of the Commerce team began to be shown as the St. John team was unable to put on steam as the time became shorter.

The pairings for the preliminary games, played on Friday evening were: Commerce vs. Uxbridge, St. John's vs. Webster, Northbridge vs. Classical, and Fitchburg vs. South.

In the first game of the evening Commerce High defeated Uxbridge High in an interesting, but one-sided game by

(Continued on Page 6, Col. 1)

INDOOR TRACK SEASON NETS SINGLE VICTORY

Hard Luck Hits Team This Year

Tech concluded a rather mediocre track season with the meet with Northeastern. Of the three indoor meets, Tech won one, from M. A. C., and lost two, one to Brown and the other to Northeastern. Starting out with prospects of a bright season, the team was overcome with hard luck which kept several men from the team for one reason or another. The loss of Eddie Milde, who hurt his leg in the B. A. A. games was keenly felt in the sprints, although Capt. Stoughton took practically every first, being beaten but once. With Milde running, however, Tech would undoubtedly have won first and second in the dashes in practically every meet. Pete Topelian's leaving college left a gap in the high jumping ranks which was especially noticeable in the Brown and Northeastern meets. The loss of Hathaway and Josephs also was keenly felt.

The team started out by bowing to Brown 57-20. Brown took all but three first places and these three were won by Stoughton in the forty yard dash, by Smith in the mile, and by Prohovich in the shot. At this meet Stoughton lowered the track record set by Eddie Milde by one fifth of a second.

(Continued on Page 5, Col. 4)

ALFRED FLINN TO SPEAK THURSDAY

**Graduate Is a Prominent Author
and Engineer**

Mr. Alfred D. Flinn, W.P.I., '93, Secretary of the Engineering Foundation, will speak on work of that organization, of the Louvain Memorial, and what our engineering societies mean to graduates and to the country, at the next regular Student Assembly, Thursday, March 14, at 11 o'clock.

Mr. Flinn graduated in the Civil Course and while here was a member of the S. A. E. fraternity. On taking up his work, he became associated with water for nine years, during the last two years of which he added to his practical work with a lecture course in water works and sewerage to seniors at Lawrence Scientific School of Harvard. His duties brought him in touch with all the Metropolitan water supply system. During this

(Continued on Page 4, Col. 5)

JUNIOR PROM WILL BE IN BANCROFT BALLROOM

Hughie Connors to Furnish Music

The annual Junior Prom will be held Friday, April 26, in the ballroom of the Bancroft Hotel. The committee headed by Charlie Fay has secured the popular Hughie Connor's Orchestra to furnish the music. This team has been a favorite at the dances held on the Hill the past few years and will add much towards a successful party. Special arrangements have been made for something different in the way of favors. They will be very attractive and quite unique. As in past years the subscription will be ten dollars a couple.

FILM WILL BE SHOWN AT A. S. C. E. MEETING

Story of Rail Steel is Title

Through the courtesy of the Rail Steel Bar Association of Chicago, a film entitled "The Story of Rail Steel" will be shown at the meeting of the A. S. C. E., Tuesday, March 12, in Boynton Hall. This film has been loaned to many of the engineering colleges in the east, all of which enthusiastically recommend it to students interested in Civil Engineering. It reviews the production of concrete reinforcing bars from the melting of pig iron to the rolling of the finished bar, their bending, fabrication, and shipment. Several scenes are devoted to placing steel and pouring concrete, as well as to completed structures of several types.

TECH NEWS ASSOCIATION HOLDS ANNUAL ELECTIONS

Center Is New Editor-in-chief

In the annual TECH NEWS Association elections, held last Tuesday in Boynton Hall, C. Eugene Center was elected Editor-in-Chief to succeed H. L. Horton, and William J. Newbold was selected to follow in the footsteps of S. D. Donahue. The newly elected editors then conferred in private and finally appointed W. H. Mills, News Editor and C. B. Ives, Athletic Editor. Balloting followed between R. J. Le Bosquet and A. A. Lavarella for the office of Secretary of the Association, the latter winning by a few votes on the second ballot after a tie vote on the first attempt. The retiring Senior Editors then conferred in private and recommended for the office of Junior Editor four reporters, H. E. Hosmer, E. H. Rice, K. H. Perry and W. T. Hawley, who were unanimously elected. From the remaining reporters R. C. Lungren and H. O. Carlson were selected for the two remaining vacancies in the Junior Staff. R. A. Holley gathered a few more votes than R. W. Puddington and consequently was elected Business Manager, while H. D. Deane, and F. C. Tucker were unanimously elected to the offices of Advertising Manager and Subscription Manager.

CALENDAR

TUESDAY, MARCH 12:

9:50 A. M.—Chapel Service, Rev. Leslie Barrett.

4:00 P. M.—Interfraternity Bowling Match.

7:45 P. M.—A. S. C. E. Meeting, Boynton 19.

8:00 P. M.—Aero Club Meeting, M. E. Lecture Room.

WEDNESDAY, MARCH 13:

9:50 A. M.—Chapel Service, Rev. Leslie Barrett.

4:00 P. M.—Interfraternity Bowling Match.

4:00 P. M.—Radio Club Meeting, E. E. Building, Room B.

THURSDAY, MARCH 14:

9:50 A. M.—Chapel Service, Rev. R. E. Butterfield.

11:00 A. M.—Student Assembly, in Alumni Gymnasium.

4:00 P. M.—Interfraternity Bowling Match.

FRIDAY, MARCH 15:

9:50 A. M.—Chapel Service, Rev. R. E. Butterfield.

4:00 P. M.—Interfraternity Bowling Match.

8:00 P. M.—N. E. Intercollegiate Swimming Championships, B. U. Club.

SATURDAY, MARCH 16:

8:00 P. M.—N. E. Intercollegiate Swimming Championship Finals, B. U. Club.

MONDAY, MARCH 18:

9:50 A. M.—Chapel Service, Prof. H. P. Fairfield.

4:00 P. M.—Interfraternity Bowling Match.

4:00 P. M.—NEWS assignments, Boynton 19.

W. P. I. SUFFERS 40-31 SETBACK AT HANDS OF LOWELL QUINTET

**Defeat Marks the Close of Worcester Tech's 1928-29 Schedule of
Sixteen Games**

SPOONER SPEAKS TO E. E. GROUP

**Relation Between Research and
Invention Is Topic**

Last Friday evening, at 8:15, the Worcester Section of the A. I. E. E., held its monthly meeting. The speaker of the evening, Mr. Thomas W. Spooner, assistant manager of the Westinghouse Electric Company, spoke on "The Relation Between Research and Invention."

Mr. Spooner, because of his experience in the research field for Westinghouse, has become a recognized authority on this subject, especially in regard to magnetism. He is a graduate of Bates University and M. I. T. A summary of his lecture is as follows:

Research is now more of a group matter than an individual one. Most inventions are the result of the combined findings of a group of men

(Continued on Page 5, Col. 2)

AERO CLUB MEETING TO BE TUESDAY NIGHT

Mr. Johnson Will Be Speaker

A meeting of the Aero Club will be held in the Mechanical Engineering building, Tuesday evening, March 12, at eight o'clock.

Mr. Johnson, President Engineer for the Liberty Mutual Insurance Co., will speak on the subject "Why wartime planes flew, and how." This address should be very interesting and even more so due to the fact that the speaker will accompany his talk with pictures.

Mr. Johnson was an aviator during the world war, having a great deal of experience with war planes, and he has since the war done a considerable amount of work with models. His address should be very interesting and no doubt will be well attended.

SENIORS NOMINATE MEN FOR PERMANENT OFFICE

Nominees Are Active in Class

Nominations for the permanent officers of the class of 1929 have been made, J. E. Gill, D. R. Leamy and A. W. Knight being the candidates for president. The vice-president will be chosen from the two men failing of election to the higher office.

The nominees for secretary are A. H. Burr, J. K. Fullerton and W. R. Hutton, while the permanent treasurer will be elected from A. R. Cushman, A. C. Holt and H. D. Stake.

(Continued on Page 3, Col. 5)

ENGINEERS ENJOY 17-13 LEAD AT HALFWAY MARK, BUT ARE ROUTED IN CLOSING PERIOD

Tech closed a most disastrous season with a loss to Lowell Textile last Saturday night. In spite of a well earned lead in the first half Tech lost out because of inability of the team to keep up with the same brand of basketball in the last period. Although the score at the end of the half was 17-13 the final score of 41-30 shows the slump that took place in the second period.

Bill Asp twisted around his man and then dropped a pretty shot to give Tech two points right after the opening whistle. The referee began to call fouls rather freely the next few minutes, the majority on Lowell so that scoring from the floor was not possible for a time. When the players and referee had settled the question of who was to run the game, Savard of Lowell took the ball off the backboard and made a short follow shot good. Bill Dennison helped retain Tech's lead with a nice set shot. Jarek, star Lowell forward, scored twice from the floor to put Lowell on even terms for the first time in the game. After a beautiful

(Continued on Page 3, Col. 2)

SECONDS HAVE A POOR SEASON

**Victories Over Clark Reserves
Were Among Wins**

The Tech Seconds have closed their 1928-29 basketball season with a record of four victories and seven defeats. Although it has been an unsuccessful season, a great deal of credit is due to Coach Maxfield, who continually improved the team, and toward the end of the season the scrubs played in such a manner that, should they again meet any of their conquerors, the results would probably result in favor of the Crimson and Gray.

The season opened December 15th, with a defeat at the hands of the St. Peter's quintet by a score of 23-15. On January 5th, the Worcester champions, Commerce High, in a very close battle defeated the Seconds by the close score of 28-25. The next two games played with two more Worcester teams, namely Classical and Trade School on January 9th and 12th respectively, were also setbacks for the Engineers, the score of the first game being 19-13 and that of the second 34-16. The Tech team broke into the winning column January 19th, when they easily defeated Northboro High, 38-16, but in the next game, played on January 26th, the team again

(Continued on Page 6, Col. 4)

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HAPPY NEW YEAR

The month of March, as in the olden days of Rome, has ushered in a new year—for some of us. We of the new staff of the TECH NEWS are the ones who are thus turning over the first page of a new chapter of the NEWS. A year thus just starting is always fraught with unseen and unexpected delights and pleasures, dangers and disappointments to those who have the curiosity to investigate into its possibilities. As we take this first step "on our own" we must turn and bid adios to the old and loyal staff under which we have worked in setting forth the main events of the past year. We receive from their hands a paper which is in the best of health both financially and otherwise, and we must pledge ourselves to carry it onward and upward.

Our predecessors are to be sincerely thanked for their bit of kindness in wishing success to the new staff. Their policies have been firmly carried out, a new office has been acquired, and the organization as a whole has been more closely knit together. In looking into the future, we realize that our future actions and the results they bring may be governed to a very great extent in the manner in which we set forth and later carry out our "New Year's Resolutions." Granting the promise that the main end of an organ such as the TECH NEWS is to faithfully present "all the news and nothing but the news," we must also grant certain assumptions, and make certain definitions. The first and most important is the one: "what is news?" Any and all of the events pertaining to the college and its members and which are important enough to deserve a permanent place in the annals of local history. This is to be definitely distinguished from the meaning of "news" as given by newspapers, which is equivalent to defining the word as a "scoop" over all other papers. The pertinent criticism is often aimed at the TECH NEWS that events such as athletic contests are often "stale" by the time they are set forth in that organ. This is the exact point which we wish to make clear; that the event itself may sound old to those of us who are in daily contact with Tech and its happenings, but how many ever stop to think of those people in distant cities, or of the importance of recording the event in permanent form for future reference? Also to be recorded under the heading above, those articles are news which reflect the opinions of important people in other parts of the country and which give us here in our own narrow sphere information as to happenings at other colleges. Thus the NEWS in a very small way provides that broadening influence which should be so important to the men who are grinding away at pure engineering.

A second important function of this organ is to be found in the molding of student opinion and in directing future conduct and activities along lines of constructive progress. To this end, the opinions of groups of men which will be helpful to the college should be brought to the attention of the staff. Under this heading the NEWS becomes an absolutely unique medium for the interchange of faculty and student opinions which should be set forth for criticism by the entire college. Thus it becomes the leader and voice of the college mind.

With the just lament by the retiring staff that cynicism often comes to the staff when laboring with articles that are "submitted by blissfully self-satisfied reporters" we admit that there is no inducement of a thousand dollars-a-year job held out to those who write, but there is a great satisfaction in a job well done and seeing it in print, and for one who has the least spark of the ability and love of writing the little charm which is awaiting him is symbolic of much more than the mere fact of staff membership.

The new staff looks forward to the coming year with eagerness and anticipation, and with the tools which have been left with which to work, it pledges whole-hearted devotion toward using those tools to the best advantage in working with the students and faculty for the betterment of Tech.

DOES APPEARANCE MAKE THE MAN?

Does appearance make the man? Judging from a letter recently addressed to the Alumni office from a graduate, it seems so. The letter, posted in one of the buildings, reads, in part, as follows: "I have heard very unfavorable reports on this year's graduating class, mainly in regard to neatness. You

may guess where I have heard it, but I believe that they should be told that overlooking such small points as a haircut, shave, clean collar, spelling, etc., might keep them from getting a good job."

If this is worthy of thought by employers it certainly is due some consideration on the part of the student. First impressions are lasting ones. The employer on meeting a prospect sees neither grades nor ability. He judges character from outward appearance, and a shabbily-dressed student can hardly expect to be judged fairly in this respect. Simply because we attend an engineering and not a co-educational college is no excuse for carelessness in regard to neatness.

In a recent questionnaire, issued to several colleges throughout the East to determine what type of student is most prevalent, approximately half the questions were concerning neatness. Here is a striking example of the value placed on appearances in sizing up a fellow. The result should be interesting, considering the general opinion of the public that "collegiate" is synonymous with carelessness.

The remarks in the letter are intended primarily for the graduating class, but apply, as well, to all other classes. In considering the lower classes, the criticism is extremely mild. It is not infrequently that students are seen minus neckties and even in some few cases, a greasy sweatshirt replaces a shirt. This, fortunately, is the exception rather than the rule.

In view of the fact that at some time or other we shall all have to look for jobs, it is not asking too much that the students of this college pay more attention to the matter of appearance. As the letter states, overlooking this small matter may lead to disappointing circumstances. The small amount of care necessary takes less time and energy than that which we spend on useless things, and the reward we reap is so much greater. Expensive clothes are not necessary. It is the care and use of the clothes that keeps their appearance neat. Occasional pressing never harmed any man's suit, in fact it gives it a new lease of life.

Let's watch our appearance! It pays to advertise.

FACULTY NOTES

Professor H. B. Smith, presidential nominee for the American Institute of Electrical Engineers, plans to make an extensive tour of the United States after the August elections. The purpose of this tour is to visit all the principal branch societies. According to the present plan he will go directly to the west coast and spend about two months organizing new societies, attending W. P. I. alumni meetings, and visiting the societies in Oregon, Washington and California.

After his return to Tech he plans several trips to other cities such as Washington, Philadelphia, Detroit, Cincinnati, and Montreal. Later in the year he expects to make a trip to visit the societies in Cuba, Mexico, and the South.

The members of the Philadelphia Alumni will hold their annual meeting at the Pennsylvania Athletic Club on March 15. Tech will be well represented by President Earle, and Professors Allen and Taylor.

Doctor Butler will address the Gardner Rotary Club next Friday noon on the subject: "New Applications of Chemistry to Industry."



An empire hung on that strap

THE hitch must be right, the pack must be tight. On details such as that hung the attainment of the day's goal and the final success of the expedition.

Lewis and Clark, first Americans to cross the continent, knew the importance of "trifles" in the concerted plan. They saw to it their equipment was right, they supervised every step from man-power to pack-horse-

power, they applied sure knowledge and constant vigilance to their task.

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Men in the Bell System, exploring new country, take infinite pains in preparation. They work toward the smooth coordination of engineering, manufacturing, warehousing, accounting, finance, public service.

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"OUR PIONEERING WORK HAS JUST BEGUN"

CLARK FINALLY DEFEATS W. P. I.

Shanahan and Cotton Top the List of Point-getters

Clark has finally won a basketball game from Tech. For six long years Tech had maintained an unbroken string of victories but last Wednesday evening Clark managed to win a hard fought game in Commerce gym. The final score of 28-20 shows the evident superiority of the Clark team but it does not tell the story of the battle that took place. From the moment when the teams took the floor until the end of the game one could feel the excitement in the air and could see it evidenced by the tenseness of the players' faces.

When the game finally got under way, after some few minutes of pleasantries on the part of the Clark delegation, the ball moved with lightning rapidity from one team to another. Neither team seemed able to pierce the other's defense and it was necessary to shoot from long distance. Art Mattson, Clark guard, was the first to be successful in this little pastime and when he dropped one through the basket for two points he put Clark in a lead from which it was never removed. Danny Kaplan, Clark forward, was fouled soon after and his free trial gave Clark three points while as yet Tech had not even come close to the basket. Clark was playing hard and the referee called a foul on Shanahan. Bill Cullen dropped it for a point to put Tech on the scoreboard. It seemed that the basket gave new life to Clark for in the short space of two minutes, Kaplan, Nicol and Shanahan scored from the floor to give the game an entirely too much Clark tinge.

Bill Asp, who was playing his usual slam-bang game, put the ball through the netting to start a little scoring bee for Tech. Bill Dennison shot from outside the defense to gain another two points. Cotton added a point from the foul line before Clark got in the game again. Both teams scored more or less infrequently until half time found Clark ahead with the score 16-10 in its favor. Both teams had heaved the ball at the basket rather freely and Tech had been less fortunate in making them register.

The second half, while no less hard fought, slowed up at times and then came to life again for brief periods. Clark was trying to hold its advantage while Tech was making a desperate attempt to score. The Main South players did better at the type of game they were playing than Tech did at its own. Clark waited until an excellent opportunity was offered and then proceeded to cash in on it. Tech on the other hand threw away its chances in poor passes and too hasty shots at the netting. Cotton tossed a pretty basket from midcourt and Dennison followed suit but Clark uncorked a pretty play that netted them three baskets before efforts were made to stop it. When this was done it was too late and the game was lost. Clark would pass the ball through to Kaplan, who in turn would pass to Shanahan in one corner. When the guards came over to cover these two men, Shanahan would pass to Whitman who would be under the basket for an easy shot. This play, the deciding factor in the game, worked very well indeed. Most of Tech's points the last half were scored via the charity route. Fouls were called freely on both teams but Babbitt was the only one expelled from the game for this reason. Purrington, who replaced him, dropped in a free try for a point.

Clark well deserved to win, not so much through scoring of one man, but because of excellent teamwork. However, Shanahan, Kaplan and Whitman

TECH LOSES TO LOWELL

(Continued from Page 1, Col. 5)

piece of passwork Bob Cotton finally got the ball under the basket for a score. Free tries aided Tech to have a 17-13 lead when the halfway mark was reached.

Tech started off the second half with a bang. Bill Cullen got a chance to try his favorite corner shot and came through with a basket, and then Ted Babbitt dropped another double counter. Lowell managed to collect two points from the foul line and Tech had a six point lead and appeared about to win the game. Savard and Jarek went on a scoring rampage and sweeping Tech before them ran up to a tie score and then a good lead in a very few minutes. Tech seemed lost for a time, on offense the players didn't shoot well and on defense were caught time after time in the wrong positions. When the game was nearly over Coach Bigler sent in a number of substitutes but they were unable to do any material scoring.

In his last game Bob Cotton proved a whirlwind on offense and played his usual game on defense

The lineup:

LOWELL TEXTILE-41			
	fg	ft	tp
Quigley lf	1	2	4
Jarek rf	7	2	16
Savard c	8	1	17
Hardman lg	2	0	4
Allard rg	0	0	0
	18	5	41

WORCESTER TECH-30			
	fg	ft	tp
Dennison rg	3	0	6
Cotton lg	4	4	12
Babbitt c	2	4	8
Asp rf	1	0	2
Cullen lf	1	0	2
	11	8	30

Substitutions: Holmes for Babbitt, Purrington for Cullen, Walker for Dennison, Downing for Purrington, Moran for Jarek, McGee for Quigley, Farrell for Hardman. Referee, Leslie Mann, Springfield. Timer, J. E. Gill.

CAMERA CLUB

On Monday evening, March 4, a meeting of the Camera Club was held in the library of the Mechanical Engineering building for the purpose of discussing the approaching exhibition, and to show some of the recent work of members.

The annual exhibition of the club is to take place in the spring and will consist entirely of views concerning Institute subjects. All of the work will be enlargements, and no contact prints will be permitted. A competent authority, not yet selected, is to be invited to judge the exhibits.

The meeting closed after a short discussion of the various technical processes connected with finer photography.

played very well indeed. Dennison and Asp were the high lights for Tech.

CLARK-28

	fg	ft	tp
Shanahan, lf	3	2	8
Kaplan, rf	1	4	6
Whitman, c	3	0	6
Mattson, lg	2	0	4
Nicol, rg	1	2	4
	10	8	28

WORCESTER TECH-20

	fg	ft	tp
Dennison, rf	2	1	5
Cotton, lg	1	2	4
Babbitt, c	0	0	0
Asp, rf	2	3	7
Purrington, rf	0	1	1
Cullen, lf	0	3	3
	5	10	20

Referee: Parker. Timers: Gill and Brown. Time: two 20-minute periods.

CARLSON IS CHOSEN TO LEAD CLASS OF 1930

O'Grady Elected Vice-President

At a meeting of the Junior Class held last Wednesday, the following officers were elected: E. Waldemar Carlson, president; Daniel F. O'Grady, vice-president; William J. Newbold, secretary; Myrton P. Finney, treasurer; Paul O. Anderson, member-at-large; William H. Mill, historian; and F. Parker Smith, auditor.

All are prominent in activities on the "Hill." Carlson is a member of the football team and Tau Beta Pi, the honorary engineering society. O'Grady, who was re-elected vice-president, is a member of the football and baseball teams and holds the position of vice-president in the Newman Club, A. S. C. E., and W. P. I. Athletic Association. Newbold and Mill, who have served as Junior Editors on the TECH NEWS Staff, were recently elected Managing Editor and News Editor, respectively. Finney, the new treasurer, is captain-elect of the football team, secretary of the A. S. C. E., and assistant-manager of baseball.

VOCATION CLUB WILL ASSEMBLE

Recruiting Conference To Take Place at Boston

April first and second at The University Club, Boston, a recruiting conference will be held for the benefit of seniors considering employment after graduation. There will be a number of short information talks by business executives of several large concerns. They will speak on features of the business products and markets, also on the extent of activities. There will also be talks on organization with discussions of the functions of departments and the types of work which lend themselves to department organization. Also talks on the educational requirements for leaders of such departments.

After the discussions there will be opportunity for individual interviews with these recruiting executives. Registration blanks for this conference may be obtained from the Department of Education and Vocation of The University Club, Boston.


SENIOR NOMINATIONS

(Continued from Page 1, Col. 4)

All of the nominees for the presidency have at some time during the history of the class held that position, Knight being the most consistent repeater in this respect. The candidates are all prominent on the Hill, Gill having been captain of the 1928 football team, and manager of basketball during the season just concluded. Leamy is captain of the 1929 baseball team, besides being president of the local honorary chapter of Tau Beta Pi. He is also president of the student A. S. C. E. Knight has largely confined his activities within the class. He was chairman of the Junior Prom committee last year. Knight, Gill and Leamy are all members of Skull.

Burr is well known as the most regularly elected class officer ever to attend the college. He has served as secretary of the class since its formation in 1925. Hutton, was manager of 1928 football, and auditor and historian.

Holt has been prominent in class affairs, and among other things has served as president. Stake has been entrusted with the keys of the class coffers during the past four semesters.



Sullivan Coal Loader handling a run of large lump coal

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The new Sullivan Coal Loader is a giant in power and speed. But it responds quickly to sensitive controls. It moves steadily to the working place, opens great jaws to gather up coal, and swings its steel tail to load the cars—with only two men to guide it.

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Each digging, conveying, and moving member is independently controlled. The machine forges its own way into the pile, and the coal is pulled by the roller, onto the conveyors which deliver it to the cars in the rear.

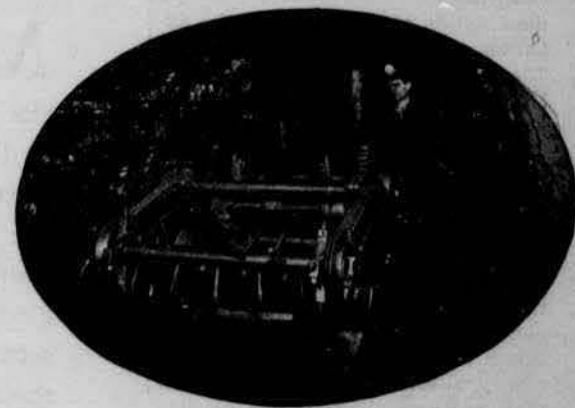
These loaders will handle 200 to 300 tons in an 8-hour shift.

Sullivan Coal Mining Equipment has pioneered for more than a generation, in improving mining efficiency.

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S U L L I V A N

TRADE MARK



Closeup of the loader passing through a break through

Catalogs on Loaders, Coal Cutters, Diamond Core Drills, Air Compressors, Rock Drills, and Hoists will be sent free to engineering students, on request.

Ask also for the booklet outlining your opportunities if you should join the Sullivan organization.

TECH NATATORS FINISH SEASON

Seven Meets Result In Five Wins and Two Losses

Worcester Tech has completed its second season in intercollegiate swimming competition with a record to be proud of. Last year the team had four meets and broke even with two wins and two defeats. This year, however, we competed in seven meets, winning five and losing only to Brown and Springfield, the intercollegiate champions last year. Several pool records have been lowered and a Tech man, Joe Rogers, holds the present 100 yard free-style N. E. intercollegiate record. This shows a marked improvement over last year and has helped put W. P. I. in the minds of the other colleges.

Tech began its season by suffering a defeat at the hands of the strong Brown team. The meet was close all the way but things turned wrong for Tech when Joe Tawter was disqualified in the diving and the Providence team produced a powerful relay quartet that settled matters. After a short layoff we came back strongly in the next meet to overwhelm the newly formed Bowdoin team. Tech secured every first and all but one second place to sink the Maine swimmers. Boston University was the next victim for Tech when we won with a perfect score by taking first and second in each event. The natators then journeyed to Williams to take them into camp for the third straight win. The whole team did exceptionally well after such a difficult

trip. The following contest was at Wesleyan where they put up a lot of opposition but Tech finally won by a few points, the relay being the deciding factor. The Middletown college pool proved to be a fast one and speedy times were turned in by both sides.

In the next meet Tech was to suffer its second and last defeat of the season as the mermen traveled to Springfield to lose by a fraction of an inch as the relay decided the winner. All the races were very close but when Captain Larson was disqualified in the individual medley, Tech's chances were materially weakened. The last meet

was against the engineers from M. I. T. in our own pool. Tech won this exciting meet as Rogers broke the N. E. intercollegiate record for the 100 yard free-style and Luey of the Boston team shattered the mark in the 150 yard backstroke. The pool records in the 440 yard free-style and the 40 yard dash were also broken to end the season of dual meets. However, Tech will enter the intercollegiate championship meet at the Boston University Club March 15 and 16. Our chances of winning are weakened as no freshmen may compete, but in spite of this, Tech should secure a sizable score.

CAPTAIN N. L. NICHOLS TO ADDRESS STUDENTS

Held Under Auspices of A. S. C. E.

Captain Newton L. Nichols, U. S. Navy will give an address under the auspices of the W. P. I. Branch of the A. S. C. E. on Tuesday evening, March 26, at 7:45 in the Lecture room of the Mechanical Engineering building.

Captain Nichols is now in command of the U. S. S. Niagara and his talk will be on Naval Surveying in the Gulf of Panama.

ALFRED FLINN TO SPEAK

(Continued from Page 1, Col. 2)

period he also wrote considerable, producing among other articles a water works handbook and the Apoletti Trapezoidal Weir.

After two years of editorial work with the "Engineering Record" he became General Engineer Inspector of the New York Water Supply Systems. In 1918 he began work as Secretary of the United Engineering Society, a director of the Engineering Foundation and member of the Engineering Council. He was highly honored recently, being made a Doctor of Science by the University of Louvain.

INTERFRATERNITY BOWLING MATCHES THIS WEEK

Tuesday, March 12—
T. U. O. vs. A. T. O.
Wednesday, March 13—
T. C. vs. S. A. E.
Thursday, March 14—
A. T. O. vs. S. O. P.
Friday, March 15—
L. C. A. vs. T. U. O.
Monday, March 18—
P. G. D. vs. L. C.

FOOTBALL SCHOOL MEETS TWICE WEEKLY IN GYM

Coach Bigler Gives Instruction

Coach "Pete" Bigler has once again started his football school with two sessions a week. A large number of men have taken advantage of the opportunity offered to find out a few of the fundamental facts about the game. These sessions had a large share in the success of the team last season. With most of the players conversant with the details that take time in the fall to perfect, it is possible for Coach Bigler to devote more time to those details that often mean the difference between victory and defeat. The present plan is to start from the beginning, explain the various interpretations of the rules, and show the standard stands on offense and defense. After these facts have been mastered the plays are given out so that in the fall time need not be spent in learning new plays. Last year it was possible to spend the first two weeks in the necessary conditioning of the players and it was not until a week before the first game that it was necessary to give out any plays. When the plays were shown it was possible to have two teams line up immediately and run through the signals. With the advantage that the superior condition of the men gives to a team, Tech will be able to devote more time to perfection of the plays and improve the teamwork.



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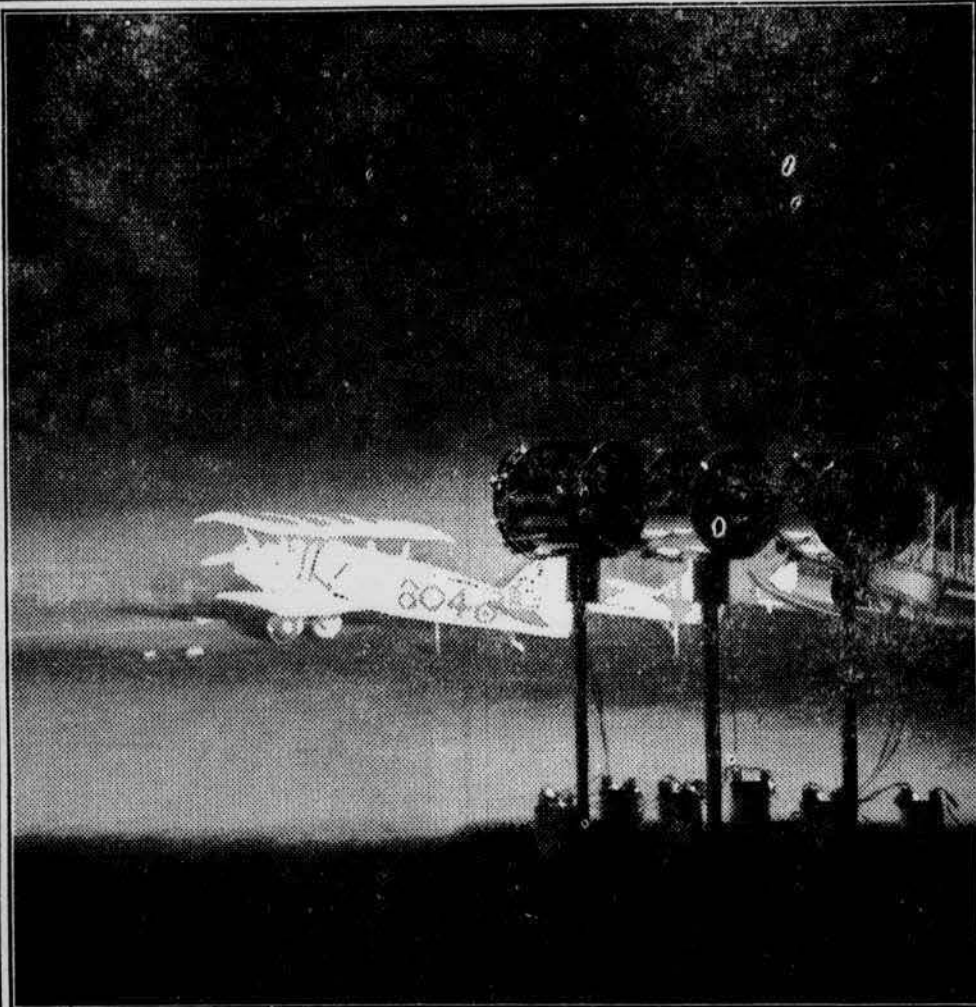
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Headquarters Sales,
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T. U. O. TOPS FRAT. BOWLERS

A. T. O. Drops to Second Place in the Competition

A. T. O. LOSES TO P. G. D.

A. T. O. dropped to second place last Monday when they were defeated by P. G. D. All of the members of the P. G. D. team seemed to be bowling better than at any other time during the contest. Pickering, Finn, Wanstall and Holbrook were responsible for the Victory. Mill, Fletcher, Simonds and Norton bowled for A. T. O.

T. U. O. DEFEATS P. S. K.

T. U. O. retained their lead on Tuesday by defeating P. S. K. 40. Thus far T. U. O. has a total of eleven points out of twelve to their credit. Wade, Carlson, Bergquist and Marshall bowled for the winners. Bancroft substituted for Carlson in the third string. Although no individual records were set Carlson bowled 115 for the string.

T. C. DEFEATS S. O. P.

The third bowling match was held on Thursday. T. C. rose to third place when they defeated S. O. P. 3-1. Anderson, Barks, Leach and Pollard bowled for T. C. while Josephs, Putnam, Stone and Baron made up the S. O. P. team.

P. S. K. LOSES TO P. G. D.

The last match of the week proved to be another victory for P. G. D. Pickering, Finn, Fryer and Holbrook bowled for the winners. Finney replaced Peters on the regular lineup for P. S. K. With him were Sheldon, Smith and Chaffee.

SPOONER SPEAKS

(Continued from Page 1, Col. 4)

rather than the concerted efforts of a single individual.

One of the most important and most difficult problems facing research men of today is that of insulation. Insulation is generally divided into groups, liquid and solid. Liquid insulation, oil, is used in transformers and switches. The oil thus used often becomes hot when high voltages are used in the machine. This causes sludging, a reaction between the oxygen in the air and the hot oil. Sludging produces a scum and acidifies the oil. There are two solutions for this: one is a new oil, the other is inert air. The research laboratories produced an oil which, when submitted to conditions which in other oils would cause sludging, did not react and failed even to acidify. This oil is not on the market as yet, but is being used in several transformers owned by Westinghouse. The inert air method consists in passing the air which comes in contact with the oil through certain chemicals. These remove all oxygen and leave only inert gases which will not react. This method, however, is adapted to large transformers only.

Another problem encountered in the laboratory was that of corona on high voltage machines due to insulation. This is prevented by a special semi-conducting insulator.

Many machines, some of which were shown, have been produced in the laboratory. In particular, a machine for testing fatigue in springs and a torque-testing machine are products of Westinghouse. An interesting fact was found when the inventor tested a blonde hair and a brunette hair in this

machine. Strange as it may seem the brunette was twice as strong as the blonde. This, he said, is some consolation for the poor brunette who wants to be the gentleman's choice. This machine is also used to test tube filaments.

Another product of the laboratory was the quartz crystal used for regulating broadcasting frequencies. Several methods of mounting the crystals were discussed and slides of them shown.

As a proof that in research work the result is often an unexpected one, the Knowles grid-glow tube was produced. This developed as a side line in a research conducted by the Westinghouse people. The identical apparatus used by the late Elbert H. Gary to start the Homestead Steel Co. works in Pittsburgh was on hand. This consists of a mercury coated globe. When one approaches his hand to the globe a condenser is created which actuates the grid-glow tube. The tube operates an amplifier which lights a bulb, starts a steel works, starts a toy auto, or what have you. This is used sometimes in conjunction with a jeweler's theft alarm.

INDOOR TRACK SEASON

(Continued from Page 1, Col. 1)

The next meet with M. A. C. resulted in an overwhelming win for Tech to the score of 65-12. In this meet, M. A. C. took only one first place, while Tech easily took the rest. In the last meet, Northeastern came out on top with 58 1-2 points while Tech had but 18 1-2. Despite the appearance of the score, this was the hardest fought meet of the season, many of the events being won by inches only. As in the other meets, sickness caused the loss of several points, as Smith, the Freshman star, was unable to run after being sick all week.

Prospects for next year, however, are exceedingly bright, as but one member of the team, Dan Leamy, will be lost by graduation. With his relay race against Northeastern, Leamy finished out a spectacular career having won his letter for four successive years.

Prohovitch in the shot put, was the only member of the team to go through the season undefeated, although Capt. Stoughton was forced to taste defeat but twice, in the three hundred yard dash at Northeastern, and the hurdles at Brown.

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NEWMAN CLUB TO ELECT OFFICERS

Dinner Meeting Will Be Held In Sanford Riley Hall

On Wednesday evening at 6.15 o'clock the Tech Newman Club will hold a regular dinner meeting in Sanford Riley Dormitory to further plans for the annual Palm Sunday Communion Breakfast and for the annual election of officers. The speaker of the evening will be the Rev. Father Sullivan of the Immaculate Conception church, who will give another of his informal talks in the continuance of those he gave in the winter series of meetings.

The meeting is being held Wednesday since the Club group picture for the 1929 Peddler is to be taken at the Eugene Gray studio, 476 Main street at 4.40 p. m. that afternoon and the combining of total activities since time sequence is so close should make it possible for a large attendance at both.

INTERSCOLASTIC

(Continued from Page 1, Col. 1)
the score of 37-14. The playing in the first two periods was of good calibre with Commerce maintaining a five point lead at the end of the first quarter, and increasing it to nine before the half ended. The score at the end of the

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half was 19-8 the last two periods saw the Commerce players running away from Uxbridge to collect twenty points, due for the most part to the accurate shooting of Ambrose, who garnered seven field goals. Uxbridge tried hard but was unable to gain more than five points.

St. John's vs. Webster

This game saw St. John's defeat Webster by a 27-21 score, in a contest that looked like a sure victory for Webster at half time. Webster, with a light but very fast quintet, completely outclassed the St. John's team in the first two periods, with Dumas and Love collecting six points each for the county team, to give them a three point lead. The second half, however, told a different story. The rugged St. John's players, never seeming to tire, started the ball rolling, and before the game was over had gathered eighteen points, namely via Stanley, their rangy center, who shot seven field goals and one free-try. In this game Stanley collected seventeen points to tie Epstein of Commerce for the scoring honors of the tournament.

Northbridge vs. Classical

This game was one of the biggest upsets of the tournament, and saw Classical defeat Northbridge by three points to the tune of 23-20. Magrath of Northbridge, who garnered fourteen points, took the scoring honors of the game. With Classical leading 16-12 at the half, the team from Northbridge was seemingly already defeated. At the end of the third period the county team was leading by two points but Classical came back strong in the last period to collect five points and win the game. This contest proved to be one of the most interesting of the tournament.

Fitchburg vs. South

In the last of the preliminary contests Fitchburg High ran away from South High by the score of 45-15. In this exceedingly one-sided game, the flashy Fitchburg quintet seemed to score at will, and passed the ball with uncanny accuracy to one another, to rip thru the weak defense of South at will, and cage baskets at their own free will. Salminen, Fitchburg's center collected sixteen points to take the scoring honors of the game. At this stage of the tournament it seemed that Fitchburg had one of the best teams entered.

The pairings of the semi-finals, which were played on Saturday morning were: St. John's vs. Fitchburg, and Commerce vs. Classical.

St. John's vs. Fitchburg

In this contest the ruggedness of the St. John's players told over their lighter opponents and they easily defeated Fitchburg by the score of 23-16. Charlie Stanley was the big factor in St. John's

victory, and collected ten points, while Jarzowski, the left forward, gathered eight points. At the half St. John's was leading by six points. At the opening of the third period the Fitchburg quintet started a rally that seemed as if it would bring them to a sure victory, but in the final stages of the contest, the St. John's players won by shooting from the middle of the floor, to tuck the contest away.

Commerce vs. Classical

This contest ended in an expected victory for Commerce, who had twice before defeated their opponents in the inter-high series. The final score was 38-24. In this game Epstein of Commerce dribbled in and around his opponents to garner seventeen points, and tie the record of Stanley for individual scoring honors of the tournament. The Commerce outfit was entirely too fast for Classical, and completely out-played them to the extent of their one-sided victory. At this stage of the tournament the versatility of the Commerce quintet pointed to their winning of the cup for the second consecutive year.

SECONDS HAVE POOR SEASON

(Continued from Page 1, Col. 5)

went down to defeat, this time to North High, the result being 29-24. The Clark Seconds proved to be no match for the Tech team when the two teams clashed on February 16th and the Tech quintet again broke into the winning column, winning by the one-sided score of 30 to 15. On February 22nd and 23rd the team suffered defeats by close scores, the first game being played with the Boys' club and the second with Fitchburg High, the results were 32-30 for the first game and 22-19 for the other. In the last two games played the team seemed very much improved and consequently the games resulted in victories for the Seconds. In the first game, played with South High, the score was 36-12 and the last game, the best by the team during the entire season, resulted in another victory over Clark Seconds, this time the score being 21-18.

The men on the Second team at the close of the season were Kontio, Walker, Bayon, Blouin, Peterson, Hager, Leach, Seelert and Leppenan.

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